

Pacific States Marine Fisheries Commission

John Day Dam Condition Monitoring Weekly Report, #23-12

Report Period: 6/17 – 6/23, 2023

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SECTION 1. River Flow and Sampling Results

	Min	Max	Mean		
			Current	Last Week	2022
A. River Flow	154.7	172.1	165.9	184.9	425.2
B. Powerhouse 1	99.6	111.2	106.9	66.1	233.8
C. Spill (kcfs)	53.9	60.0	58.0	117.6	190.3
% of River Flow	34.8	35.1	34.9	63.4	44.7
D. Water Temp *	64.5	65.5	65.0	65.0	57.6
E. % Saturation *	102.1	104.4	103.3	109.6	117.2

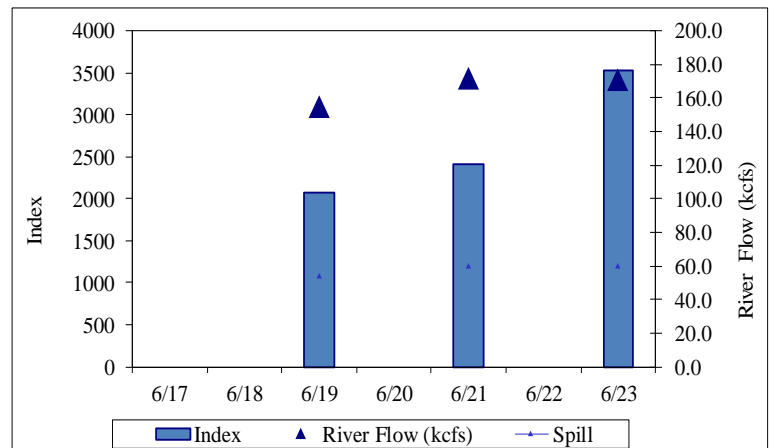
* TDG data from USGS forebay sensor, water temp from lab and USGS sensor.

% SAMPLE COMPOSITION		This Week	Last Week
YEARLING CHINOOK	1.8%	1.4%	
SUBYEARLING CHINOOK	96.1%	95.4%	
CHINOOK FRY	0.0%	0.4%	
UNCLIPPED STEELHEAD	0.0%	0.4%	
CLIPPED STEELHEAD	0.3%	0.0%	
COHO	1.5%	2.1%	
COHO FRY	0.0%	0.0%	
SOCKEYE	0.3%	0.4%	

YEARLING CHINOOK							SUBYEARLING CHINOOK					COHO				
End Date	Sample Rate	# Smpld	% Desc	% Mort	# Coll	Index	# Smpld	% Desc	% Mort	# Coll	Index	# Smpld	% Desc	% Mort	# Coll	Index
6/17																
6/18																
6/19	8.1%	3	0.0	0.0	12	18	101	1.0	0.0	1,260	1,942	3	0.0	0.0	44	68
6/20																
6/21	6.9%	0	0.0	0.0	0	0	109	0.9	0.0	1,541	2,372	1	0.0	0.0	20	31
6/22																
6/23	5.0%	3	0.0	0.0	60	93	110	0.0	0.0	2,200	3,400	1	0.0	0.0	20	31
Weekly		6	0.0	0.0	72	111	320	0.6	0.0	5,001	7,714	5	0.0	0.0	84	130
Season to date		3,884	2.2	0.2	84,119	213,921	2,042	1.0	0.0	34,159	112,689	280	5.0	0.0	8,044	21,884

UNCLIPPED STEELHEAD							CLIPPED STEELHEAD					SOCKEYE				
End Date	Sample Rate	# Smpld	% Desc	% Mort	# Coll	Index	# Smpld	% Desc	% Mort	# Coll	Index	# Smpld	% Desc	% Mort	# Coll	Index
6/17																
6/18																
6/19	8.1%	0	0.0	0.0	0	0	1	0.0	0.0	4	6	1	0.0	0.0	20	31
6/20																
6/21	6.9%	0	0.0	0.0	0	0	0	0.0	0.0	0	0	0	0.0	0.0	0	0
6/22																
6/23	5.0%	0	0.0	0.0	0	0	0	0.0	0.0	0	0	0	0.0	0.0	0	0
Weekly		0	0.0	0.0	0	0	1	0.0	0.0	4	6	1	0.0	0.0	20	31
Season to date		344	3.5	0.0	10,294	25,917	958	4.0	0.0	38,693	97,930	135	5.9	0.0	4,645	11,479

TOTAL						
End Date	Sample Rate	# Smpld	% Desc	% Mort	# Coll	Index
6/17						
6/18						
6/19	8.1%	109	0.9	0.0	1,340	2,065
6/20						
6/21	6.9%	110	0.9	0.0	1,561	2,403
6/22						
6/23	5.0%	114	0.0	0.0	2,280	3,524
Weekly		333	0.6	0.0	5,181	7,992
Season to date		7,643	2.3	0.1	179,954	483,819



Notes: Condition percentages are calculated from sample numbers.
Subyearling chinook and coho include fry.

Western Brook

	Macrophthalmia			Ammocoetes			Ammocoetes		
End Date	# Smpld	% Mort	# Coll	# Smpld	% Mort	# Coll	# Smpld	% Mort	# Coll
6/17									
6/18									
6/19	2	0.0	24	0	0.0	0	0	0	0
6/20									
6/21	1	0.0	50	0	0.0	0	0	0	0
6/22									
6/23	0	0.0	0	0	0.0	0	0	0	0
Weekly	3	0.0	74	0	0.0	0	0	0	0
Season to date	253	0.0	3,247	107	0.0	575	0	0	0

SECTION 2. Smolt and Lamprey Condition Monitoring Summary

		Yearling Chinook		Subyearling Chinook		Unclipped Steelhead		Clipped Steelhead		Coho		Sockeye	
		This Week	Last Week	This Week	Last Week	This Week	Last Week	This Week	Last Week	This Week	Last Week	This Week	Last Week
SAMPLE #		6	8	320	538	0	2	1	0	4	12	1	2
DESCALING	3-19%	33.3%		6.6%	2.4%	50.0%				8.3%			
	>20%			0.6%									
	Pred. Desc.	25.0%			0.2%								
INJURY	BODY	12.5%		1.6%	0.6%					8.3%			
	EYE												
	HEAD												
	OPERC.			0.3%	0.2%								
	FIN			1.9%	0.2%					25.0%	8.3%		
OTHER CONDITIONS	POPEYE												
	PINK FIN												
DISEASE	Fin Discolor.	16.7%		5.0%	4.5%								
	FIN HEM.												
	Columnaris			0.3%	0.2%								
	FUNGUS			0.3%									
	BKD			2.5%	0.4%	50.0%							
PREDATION	PARASITES			0.9%									
	DEFORMITY												
	EYE HEM.												
	BIRD	25.0%		0.6%	0.6%	50.0%				8.3%			
	FISH			1.3%	0.6%								
	LAMPREY			0.6%	0.2%								
	OTHER												
end dates		6/23	6/16										

			INJURY					DISEASE and OTHER CONDITIONS				PREDATION		
MP- Macrophthalmia This Week Last Week	End Date	SAMPLE #	BODY	EYE	HEAD	FIN	POPEYE	FIN HEM	Columnaris	FUNGUS	DEFORMITY	EYE HEM.	BIRD	FISH
	6/23	3										66.7%		
	6/16	1	100.0%					100.0%						
AP - Ammocoetes This Week Last Week		SAMPLE #												
	6/23	0												
	6/16	0												

SECTION 3. Incidental Summary

	Bass Largemouth	Bass Smallmouth	Bluegill and Pumpkinseed	Bullhead	Carp	Catfish, Channel	Chiselmouth	Crappie species
This Week	0	1	0	0	0	0	0	0
Season to Date	0	14	6	0	2	1	0	7

	Dace - Longnose	Dace - Speckled	Chinook Jack	Kokanee	Lamprey Adult	Northern Pikeminnow	Peamouth	Perch Yellow
This Week	0	0	0	0	0	0	0	0
Season to Date	0	0	0	0	2	0	0	68

	Redside Shiner	Sand Roller	Sculpin species	Stickleback 3 spine	Sucker species	Shad Adult	Shad Juvenile	Sturgeon White
This Week	0	0	0	0	0	0	0	0
Season to Date	0	0	10	4	2	0	0	0

	Trout Bull	Trout Cutthroat	Trout Rainbow	Walleye	Whitefish Mountain	Siberian Prawn	Chum Salmon	Banded Killifish
This Week	0	0	0	0	1	0	0	1
Season to Date	0	0	0	21	3	184	0	2

SECTION 4. Facility Operations

Condition Monitoring at John Day Dam was scheduled to sample Monday through Friday until 15 June and will now sample three times a week (Mon., Wed., Fri.) until the Columbia River water temperature averages 70 degrees F. Samples will be taken from the Juvenile Bypass System between 0700 and 1300 hrs. and the Condition Exams will target approximately 100 of the predominant species of out-migrant, which is currently Subyearling Fall Chinook which were 96.1% of the sample this week. Collection, Index, and River flow estimates and averages are for the sample period only. Debris at the separator bars very was low for the week which continued to coincide with lower river flows than last week. Debris consisted of sticks, tumbleweeds, pieces of terrestrial vegetation, and plastic.

SECTION 5. Research

A genetic fin clip sample was taken from three Pacific Lamprey macrophthalmia for the Columbia River Inter-Tribal Fish Commission during this report period.

SECTION 6. Pictures



Unclipped Subyearling Fall Chinook smolt (*Oncorhynchus tshawytscha*), approximately 95 mm fork length, showing a growth deformity from the dorsal fin to the caudal peduncle, similar to one sampled at the John Day Dam Smolt Facility on June 21, 2023.



Unclipped Subyearling Fall Chinook smolt (*Oncorhynchus tshawytscha*), approximately 95 mm fork length, showing a body injury and fin hemorrhaging, similar to one sampled at the John Day Dam Smolt Facility on June 23, 2023.